

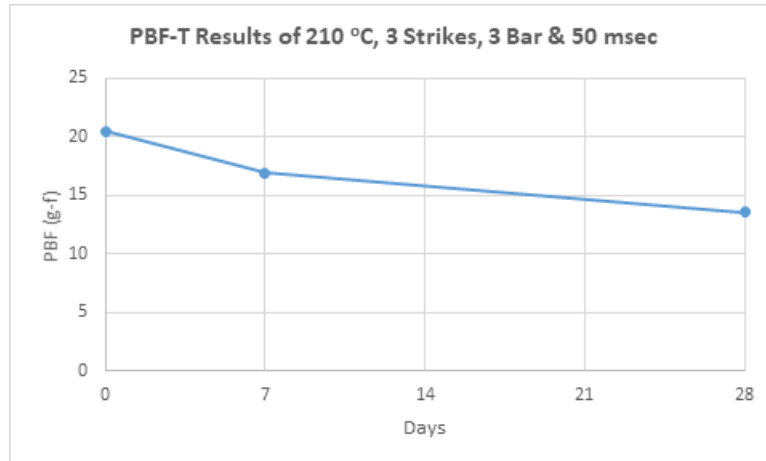
## Report of Analysis

**Date:** 7/29/2021  
**Name of Materials:** C-Material  
**Manufacturer:** ADV-PH  
**Test Requested:** Seal PBF-T under ambient condition  
**Test Requested by:** Raymund Escalante  
**Objective:** Confirm the compatibility of HUC cover-tape with the C-Material  
**Results:**

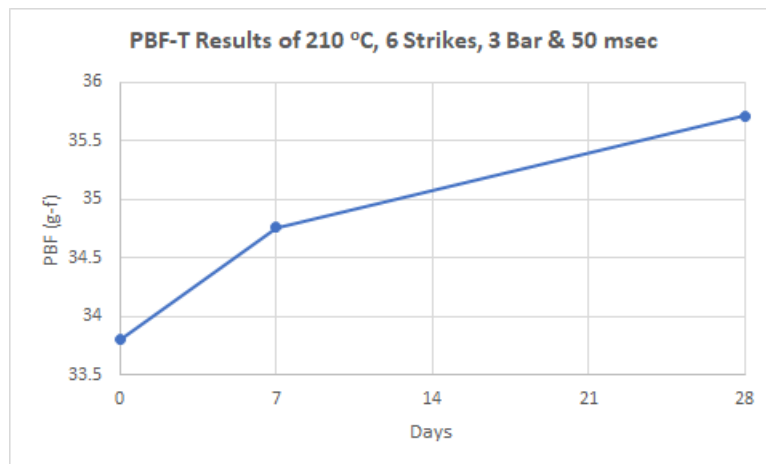
HUC0054 on C-Material (IP4035-DC) Aging Data using Different Conditions for PBF-T: 3 Bar, 50msec			
Ambient @ 25° C/ 50 %RH		PBF in g-f	
Temp (C°)	Days	Mean	SD
210 (3 Strikes)	0	20.48	5.94
	7	16.94	7.96
	28	13.57	8.58
210 (6 Strikes)	0	33.80	4.43
	7	34.76	4.33
	28	35.71	4.06
220 (3 Strikes)	0	22.56	5.94
	7	26.17	5.92
	28	26.27	6.66
220 (3 Strikes)	0	34.41	3.59
	7	35.76	3.37
	28	39.99	4.53

**Disclaimer:** The information contained herein is considered typical laboratory data and is compiled using good faith techniques. Advantek makes no representations or warranty expressed or implied. Advantek assumes no obligation or liability of its accuracy and the potential user should perform any pertinent testing to determine suitability of the product. This information is subject to change without notice

A.

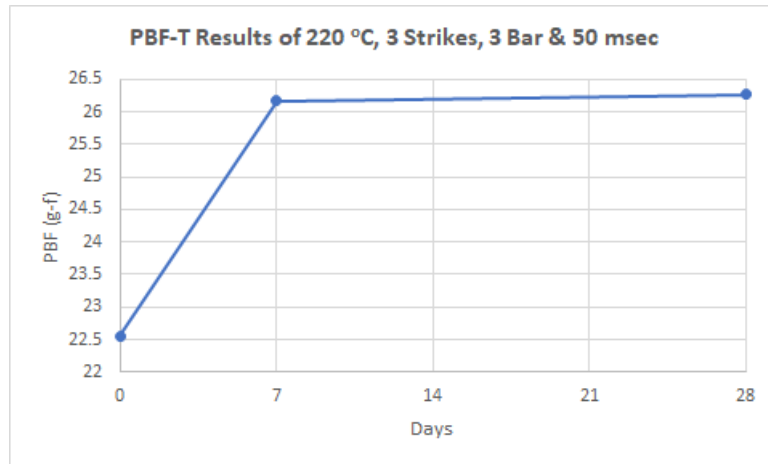


B.

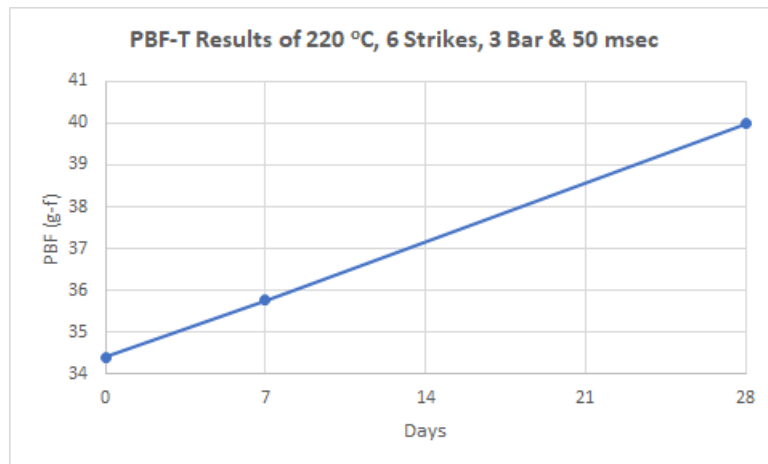


**Disclaimer:** The information contained herein is considered typical laboratory data and is compiled using good faith techniques. Advantek makes no representations or warranty expressed or implied. Advantek assumes no obligation or liability of its accuracy and the potential user should perform any pertinent testing to determine suitability of the product. This information is subject to change without notice

C.



D.



**Disclaimer:** The information contained herein is considered typical laboratory data and is compiled using good faith techniques. Advantek makes no representations or warranty expressed or implied. Advantek assumes no obligation or liability of its accuracy and the potential user should perform any pertinent testing to determine suitability of the product. This information is subject to change without notice



Materials Science Laboratory	AAEC
Confidential	<b>Job Number: 000001</b>

**Remarks:**

The PBF-T results show compatibility between HUC, and C-material based on the sample inspection for open seal; There were no open seal observed between day zero (0), day seven (7) and day twenty-eight (28) seal test. A drop in PBF response for 210 °C with three (3) strikes was observed. This is an indication that the cover tape’s adhesive was not fully activated/bonded with the surface of the carrier tape. All samples that were sealed under the six (6) strikes condition produced an acceptable PBF response under the EIA standard.

It is recommended to use a sealing condition between 210 °C -230 °C as a sealing temperature with six (6) strikes to fully activate the adhesive component of the HUC cover-tape for C-Material.

**\*\*\* Nothing Follow\*\*\***

***Disclaimer:** The information contained herein is considered typical laboratory data and is compiled using good faith techniques. Advantek makes no representations or warranty expressed or implied. Advantek assumes no obligation or liability of its accuracy and the potential user should perform any pertinent testing to determine suitability of the product. This information is subject to change without notice*



**ADVANTEK**  
engineered confidence™

Materials Science Laboratory	AAEC
------------------------------	------

Confidential	<b>Job Number: 000001</b>
--------------	---------------------------

<b>Tests Performed by:</b>	<b>Chris Russel</b>	

**Disclaimer:** The information contained herein is considered typical laboratory data and is compiled using good faith techniques. Advantek makes no representations or warranty expressed or implied. Advantek assumes no obligation or liability of its accuracy and the potential user should perform any pertinent testing to determine suitability of the product. This information is subject to change without notice